G·LITES™

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STAR SEARCH 4000/5000

GRACE LITES CORPORATION™

GRACE LITES CORPORATION
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Check upon receipt

When you receive the product, please open the box to check whether the parts of the light to be damaged during transmit. Please inform the delivery company and keep the damaged box as the proof if you find there has some parts are damaged.

Installation

1. Check whether the voltage you have same as the one show on the light set.
2. Ask technical to install and set the light safe. Make the light beam at suitable angle.
3. Must keep the space between light equipments and lighted things more than 1.5m and the space between light equipments and wall more than 0.5m.
4. Do not put any other things around the exhaust fan or at the gate of vent-pipe.
5. Set the light immobility
6. In safety view, It is very important to connect the earth line to earth

Attention

- Do not separate the light by yourself. Call technician in case the machine break down
- Set the light immobility and try to avoid strong shake or hit
- Prevent the dust into the product.
- Make the vent-pipe not be jammed while the light is working.
- Check the power line whether be connected well before put on power
- Do not look at the light source directly to avoid damage
- Do not touch the light or draw the power line when your hands are wet.
- Must keep the space between the light and the lighted things more than 2m
- He temperature is very high when the light working . Please do not touch the metal parts while the light working.
- Do not put on the power before equipped the lamp.
- Please exchange the lamp when the light beam dim, lamp damaged or distortion.
- Please use the original package to pack, while delivery the light again to avoid shake.

Xenon lamp operation illustration

- Search light have the power from 2KW-7KW. Light upon power.
- Pay more attention to the sign of "+" and on the lamp. The big size screw and with the piece are "+". The small is "-" . The lamp must connect right with the power otherwise the lamp will burn
- Do not touch the lamp case by hand. Use cotton which be dipped in the alcohol to wash the lamp case to avoid the lamp case be dirty by the hand-wed. Oil or dusty before use the lamp. The dirty will have the influence to the light rate and lift-span.
- Set the - end of the lamp at the lamp shelf safety. Put the + end on the bracket .Do not try to just set on one end. Any pressure or torsion should not put on the xenon lamp.
- Put on power under the situation that the DC power impulse less than 3.5%otherwise will short the life of the lamp
- The current of xenon lamp has a limit otherwise will short the life of the lamp and even explode .It will be better for the life span of the lamp if you just use the 70-80% permitted current at the beginning.
- The interface of lamp and lead line must smooth and connect well. Must check the connect condition to avoid the resistance time.
- Xenon lamp which higher than 2000w uses disassembly connect line. Must use two spanners while install lamp. One holds the copper gap. Another turns the hexangular screw. Any pressure or torsion not permitted.
- Xenon ball lamp is super-high voltage discharge lamp. It must out of hit because there has high-voltage before work and working in it. when the lamp working it must be equipped in well cool case to avoid the case of lamp break or the strong ultraviolet radiation burn skin or eyes

Usage and maintain

Search light is an effective special light. About this using method and maintain has a special inquiry, in order to use the lamp in the right way, please attention to the following:

In case of safety, please switch off the power before install or replace the lamp. And then open the front cover of the lamp. But please do not make mistake with the anode and cathode of the lamp. The thin and fine side is cathode and smooth side is anode. Swing the anode side in the metal ring hole in front of the lamp and connect with the copper packet hand and screw the cap. Set the cathode side in the copper lamp holder hole at the copper center hole on the white post which at the end of the light.

Adjust the center of light beam: the light beam adjust well or not is the hinge of the light effect. After finished the lamp installation, please do not stand in front of the lamp when the front cover was open.
Switch on power the lamp will light up. And then make the light faces to a plane goal and check the light center whether is right or not. If need to adjust, you can turn the screw near the light beam to right or left to make the center of light beam at the right station.

Adjustment of facula number: there has turner at the back cover of light. You can adjust the focus by turning it to right or left to meet your inquiry. Then the focus of facula to one parallel light beam, the light up distance is most far. When you use it as special light-set, you can adjust the focus as your inquiry. Pay more attention to that there has the black center of the light beam if your facula is too large.

Light source is high voltage xenon lamp: Do not touch the ball part during the installation, to keep clean the ball and increase the light effect and life-span. Lamp must cool by strong wind during working. Must pay attention to the back fan whether works well or not always.

Clean all optics lens and reflector at regular to increase the effect. Cleaning times according to the operate frequency and usage situation. We suggest to clean the outside systems per 20 days a time and inside optics lens per 60 days. To keep luminous flux rate through clean the lamp with soft cloth or cotton stick dipped alcohol to wipe the mirrors.

This light has the automatic scan system. If the lamp was working, and you want automatic scan and strengthen the light, it just switch on the motor-head the power console then the light will scan about 120° in the horizontal direction 3 times per minute.

This light has 5 power switches, open one add 1000w, if open all the switches. That it's the total power of the lamp.

This lamp is automatic touch off, it will light on when connect power, if it doesn't happen, please check as following:
Test the voltage at the two sides of the lamp bulb first. If there has no voltage or voltage not stable, it means that the power board has problems. If there has stable current up to 100V above in the two sides of the lamp bulb and trigger make fir all the time. It means that the lamp bulb maybe has problems. If the trigger does not

make fir, it maybe the trigger has out of work. Please replace the parts according to the above method to obviate trouble.

Exchange Xenon Lamp

Step1: Take off the lamp head cover. Take off the 10 pieces six screws with hexangular screwdriver on the lamp head cover.

Step2: Take off the epoxy board. Take off the 10 pieces hexangular screw with hexangular screwdriver on the epoxy board. Do not put much pressure when pulling, otherwise will snap the power line of fan.

Step3: Take off nut M13 on the Xenon lamp head (anode) and then take off anode line, follows take off nut M13 on the end of xenon lamp (cathode) and then take off cathode line. During take off then xenon lamp, must hold the lamp in hand immobility. Do not let the lamp fall down or make any ram otherwise the lamp will break up and influence the cleaning inside the lamp box.

Step4: Set the xenon lamp or the light head, epoxy board and light head cover according to the contradictorily step.

Step5: Set the case of light head at original situation.

Announcement

When we delivery the goods out of factory, it is function is goods and package is well. All users must obey all noted attentions and operate rules. We won't sere free of charge repair if the destroy be caused by your own wrong operation. All problems which be caused by not operate accord the user manual also not the duty of distributor.

Technical Data

Lamp
Xenon Lamp XHA - 4KW - 5KW
Lamp-house: Ultrahigh pressure gas light

Light Beam
Depending on your requirements, you can choose either: 6, 12, 18, 24 and 28 light beams.
Light beam circles 80º - 120º.
Range: 1-5 Km

Pan
110º

Tilt
40º

INGRESS PROTECTION
IP44

POWER SUPPLY
4000W – 220V AC (optional 110V).

DIMENSIONS
Physical dimension:
L25xW22xH49 inches.
L640xW560xH1240mm.
Gross dimension:
L35xW29xH57 inches.
L890xW740xH1450 mm.

WEIGHT
Physical weight:
66 Kg / 145 Lb.
Gross weight in one flight case:
116 Kg / 255 Lb.

MAINTENANCE

This chapter includes information on replacing parts and cleaning the fixture. This fixture must be serviced by qualified personnel. The information listed in this chapter is intended to assist qualified personnel *only*.

Important Information:

- Disconnect the fixture from power before servicing.
- Exterior surfaces can reach 200° C and interior surfaces can exceed 250° C. Allow the fixture to cool for five minutes before touching any surface.
- Always wear hand and eye protection when servicing the fixture.
- Do not touch the lamp with bare fingers. The oils from your skin can damage the lamp and cause it to explode. If the lamp is accidentally touched, clean it immediately with a soft cloth and isopropyl alcohol ($(CH^3)^2CH0H$).
- Clean the lens and dichroic filters on a regular basis. Do not use any type of solvent since it may damage the fixture, just use a clean cloth.
  It is not recommended to use the fixture for more than 4 hours. Continuous use will shorten the life of the lamp.
- Clean your fixture on a regular basis. Dust, fog and smoke particles can accumulate and cause malfunctions.
- To clean the exterior surfaces, wipe with a soft lent-free polyester cloth or use a small vacuum to remove any built-up dust and dirt. Do not use a blower because it will force foreign particles into the fixture.
- For optimal cleaning, use a mixture of 70% alcohol to 30% water for the initial cleaning. Then clean the same parts with 100% alcohol.

General Troubleshooting

This Chapter provides information on diagnosing and solving operational problems. If a solution to your problem cannot be found in the following subsections, contact your authorized dealer or **G-Lites** Technical Support.

Unit functions but lamp does not strike:

- Make sure the correct lamp has been installed in the fixture.
- Check for loose igniter or power supply connection.
- Replace lamp.
- If lamp is still hot from recent operation, leave the unit turned on and when the lamp's temperature drops, it will restrike.

Unit is producing unexpected results

- Check DMX starting address on the fixture and console match.
- Verify that the last fixture on the link is terminated.

Unit is not responding to console:

- Verify that the fixture has the correct DMX address
- Check and replace data cables
- Verify that the last fixture on the link is terminated.

Unit is not moving

- Check if the power supply is suitable for the voltage of the fixture.
- Replace sensors.
- Please check if the inside lead wire and the connector are loose.
- Please check the electric part (such as the switch, transformer, ballast, electric capacity, resistor, filter, PCB board, controller to motor).

Pan or Tilt position is off:

- Verify that all belts are tight.
- Home the fixture.